

LS ANSWER 41 OF 97 CA COPYRIGHT 2001 ACS
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TI Manufacture of **calcium silicate** articles useful as
thermal **insulators** and building materials

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SO Jpn. Kokai Tokkyo Koho, 7 pp.

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DT Patent

LA Japanese

IC ICM C04B028-18

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CC 58-4 (Cement, Concrete, and Related Building Materials)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01298051	A2	19891201	JP 1988-129609	19880526
	JP 2631304	B2	19970716		

AB In the manuf. of Ca silicate articles by prep. an aq. slurry of Ca silicate crystals by the hydrothermal reaction of an aq. raw slurry contg. SiO₂ and **lime** under elevated pressure, shaping the Ca silicate slurry, and drying; the raw slurry contains M (M = Na and/or K) silicate. Preferably, the amt. of the silicate is controlled such that the M₂O/(Si and Ca source) wt. ratio is 0.3-3%. These articles are lightwt., have high strength and wear resistance, and do not corrode metals.

ST **calcium silicate** building material; thermal
insulator **calcium silicate**; hydrothermal
reaction **calcium silicate** manuf.; sodium silicate